

CITY OF HOUSTON Houston Public Works

DESIGN-BUILD SERVICES

Northeast Water Purification Plant Expansion





Houston Waterworks Team

- Completing EWP1 Punchlist items: Grouting Manholes, installing temp water lines and ARVs
- Installing Trailer City 2.0 Utilities and Temporary Construction Water Line
- Removing 4in Sanitary Sewer Force Main Pipe and backfilling
- Installing HWT Management and Safety Trailers

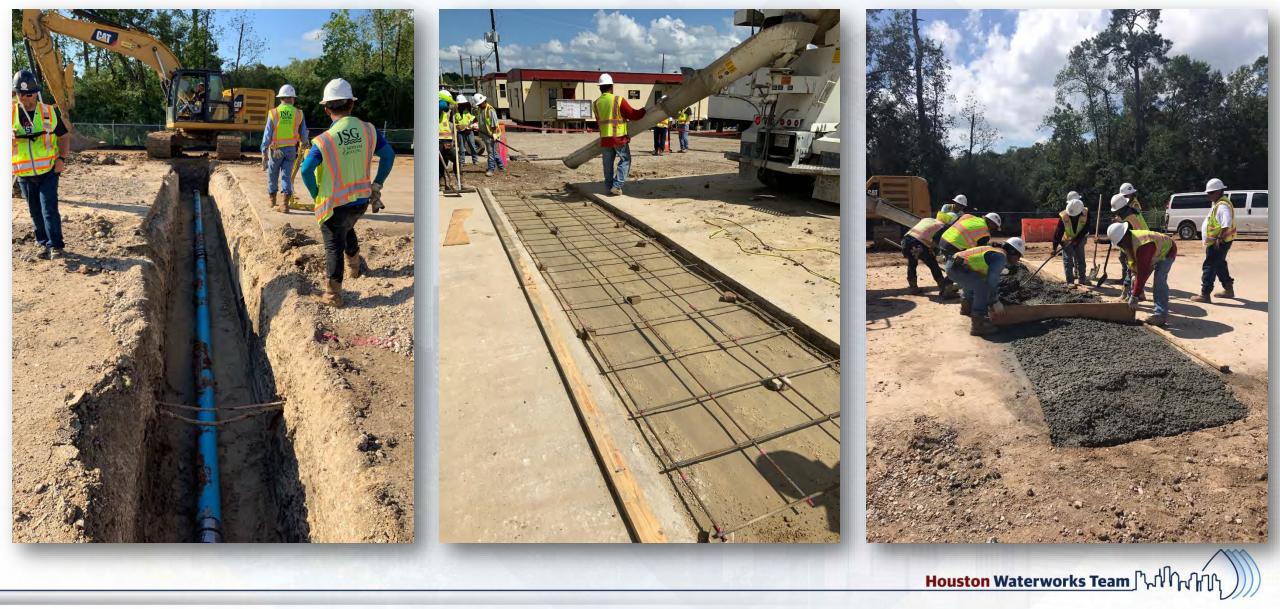
Installing temp const. water for North Plant, and building up North berm



Trailer City 2.0 - Laying Temp Construction 6-in Water Line



Trailer City 2.0 – Road Crossing of 6-in Water Line & Speed Bump





Backfilled and filling line to hydro-test 6-in Water Line



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Trailer City 2.0 – Clearing area and stringing 8-in HDPE Water Pipe



Removing 4-in PVC Sanitary Sewer Force Main Pipe & Backfilling



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Setting HWT Management and Safety Trailer Offices

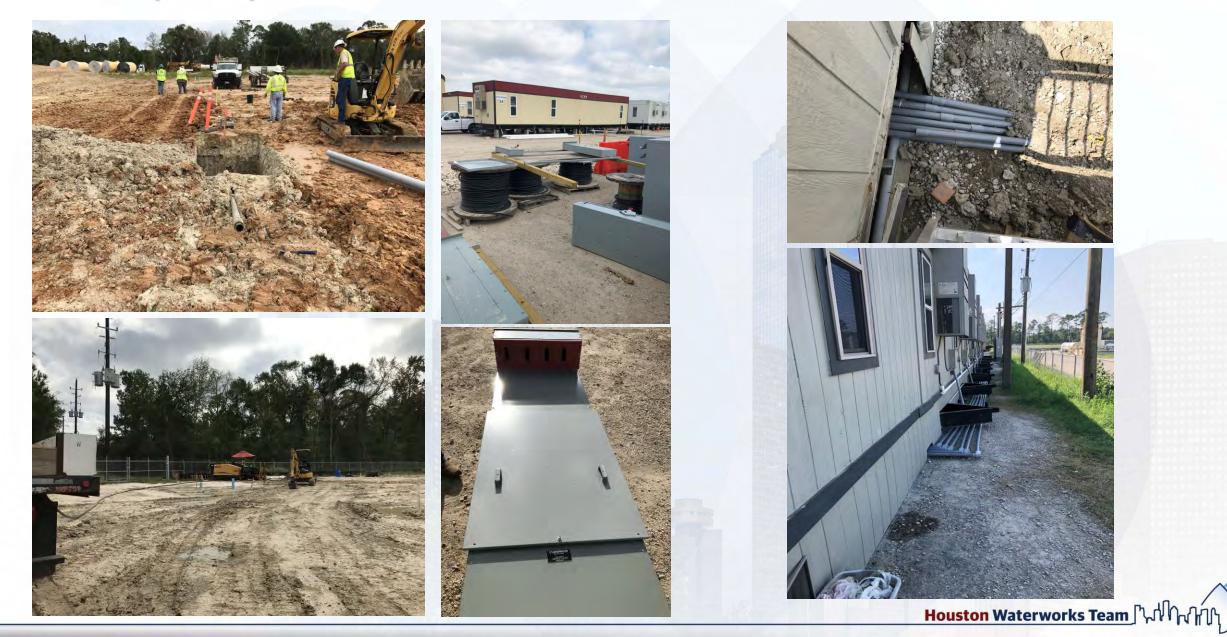


Construction Progress – Temporary Power

- Relocate and Re-Power Safety / HWT Trailer
- Pre-Fab Central, South and North Distribution Panels
- T-282 (Directional Bore), Central Plant Temp Power, Temp Lighting
- Temporary Power Horizon Construction Trailer

Temporary Power East Plant

Safety Trailer Temp Power



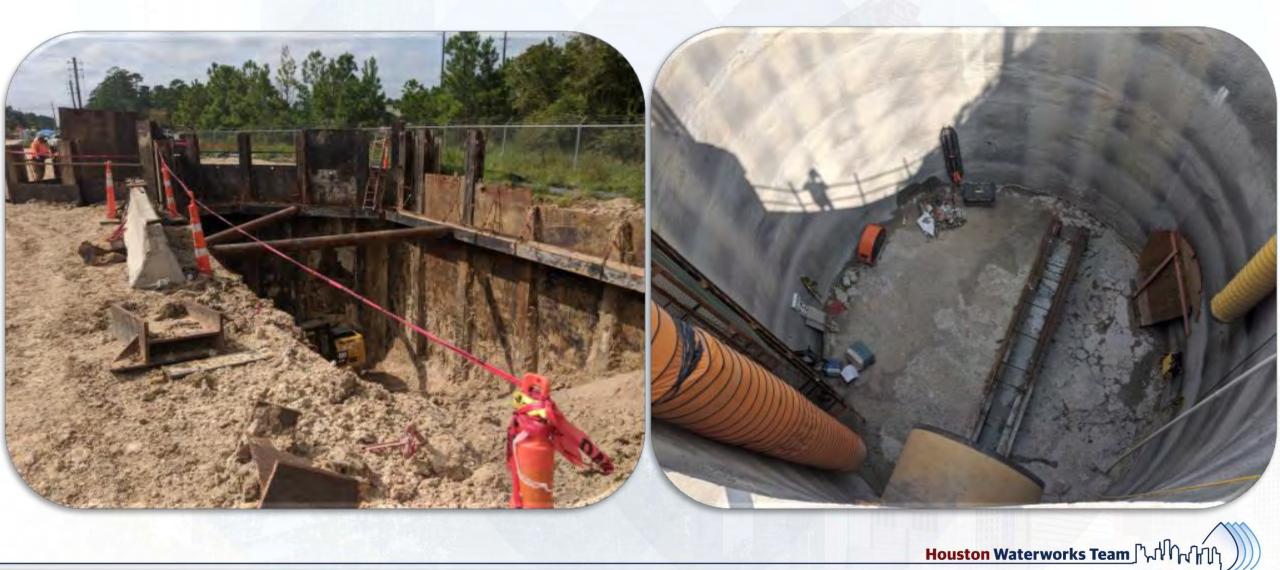
Construction Progress – EWP4 Raw Water Corridor

- Trench shoring installation and excavation in East Corridor
- Trench backfill in West Corridor
- Welding and grouting joints
- Storm Drainage Installation
- Shoring installation at transition to tunnel
- Tunnel Grout Contractor mobilization and grout placement

Station 128+50



Station 134



Station 142+50



Station 100+50



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Tunnel 2.0 Portal Excavation sta 134+50



Construction Progress – Central Plant

281-FILTER MODULE 1 :

- Forming Upper Manifold Deck 8
- Reinforcing/Forming Walls
- Wall Pours
- West Pipe encasement backfilling

291-TPS:

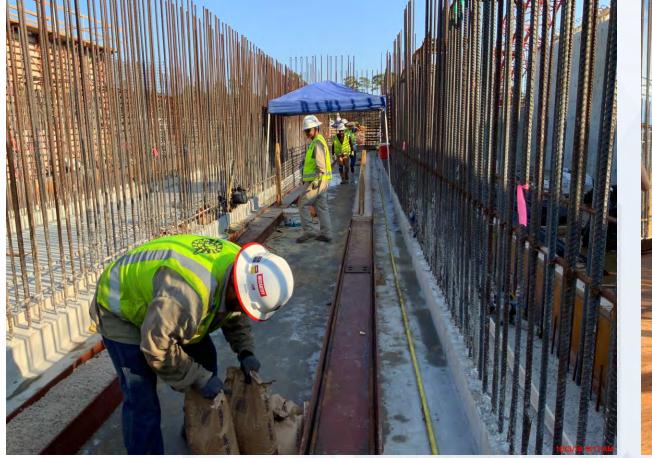
- Reinstall Waterstops at 60" suction pipe opening
- Shoring for Top Deck formwork at East Contact Basin
- Continue Cleaning Pump Cans Area

282 -FILTER MODULE 2:

• Excavation

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281-FILTER MODULE- Forming Upper Manifold Decks 8







281-FILTER MODULE- Reinforcing/Forming Walls







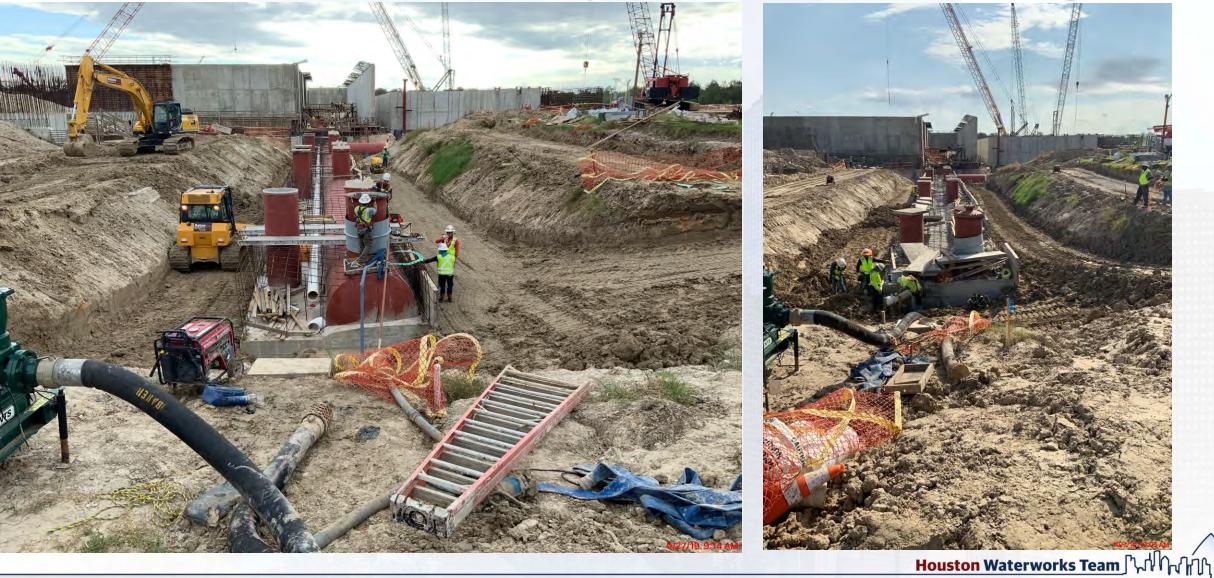
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281-FILTER MODULE- Wall Pours (D25,D13)





281-FILTER MODULE- Pipe Encasement/Backfilling



282-FILTER MODULE 2- Earth Work





TPS – Reinstall Waterstops at 60" suction pipe openings

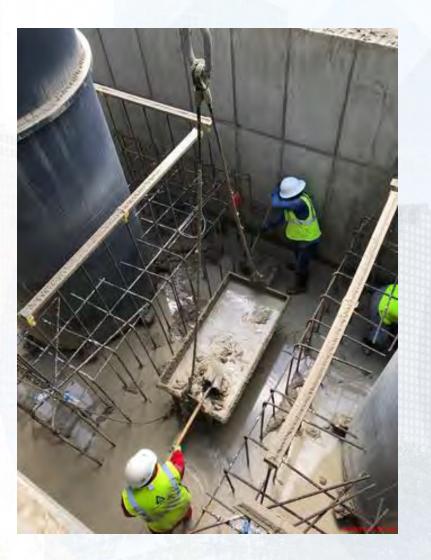


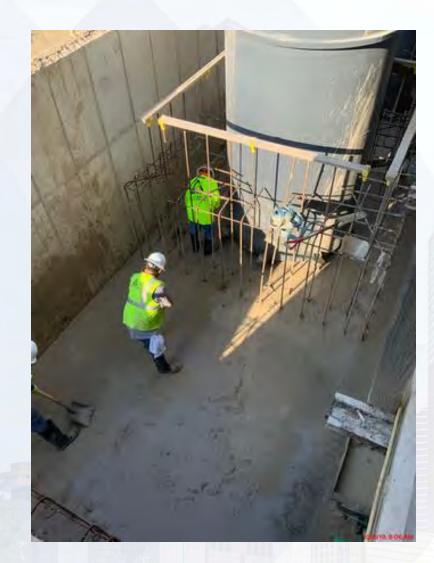
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TPS – Shoring for Top Deck Formwork



TPS – Continue Cleaning Pump Can Area





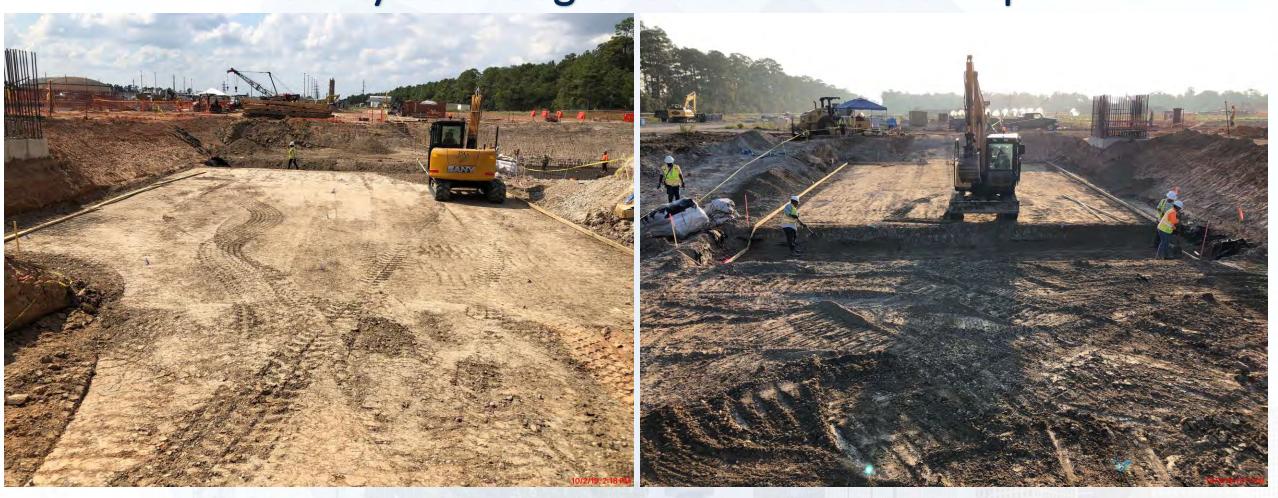
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Construction Progress – EWP6 North Plant

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- Facility 214 Subgrade Preparation
- Facility 222 Sump and Slab-on-grade F/R/P
- Facility 241 Stem Wall F/R/P
- Facility 242 Stem Wall F/R/P
- Facility 242 Cross Collector Wall F/R/P
- Facility 611 Cross Collector slab-on-grade F/R/P
- Facility 611 slab-on-grade subgrade preparation

Facility 214 Subgrade and Mud Mat Prep

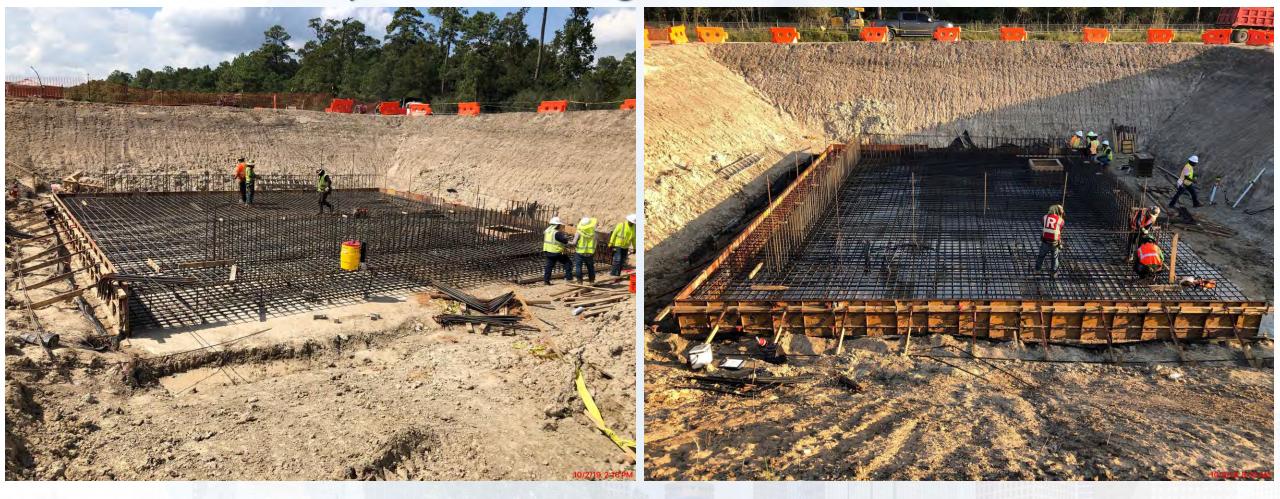




Facility 222 Slab-on-grade Rebar Placement



Facility 222 Slab-on-grade Rebar Placement





Facility 241 Stem Wall F/R/P/S





Facility 241 Stem Wall F/R/P/S



Facility 242 Cross Collector and Stem Walls F/R/P/S





Facility 242 North SOG Subgrade and Mud Mat Prep



Facility 242 E/W Corridor PDR and RCYS Piping



Facility 611 Cross Collector Slab-on-grade





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Facility 611 Slab-on-grade and Mud Mat Prep



Construction Progress – EWP 6 IPS

- Completion of Platform Piles
- Preparing To Drive 10' Pump Can Casings.

Friction collars







Materials (IPS)



Barges (IPS)



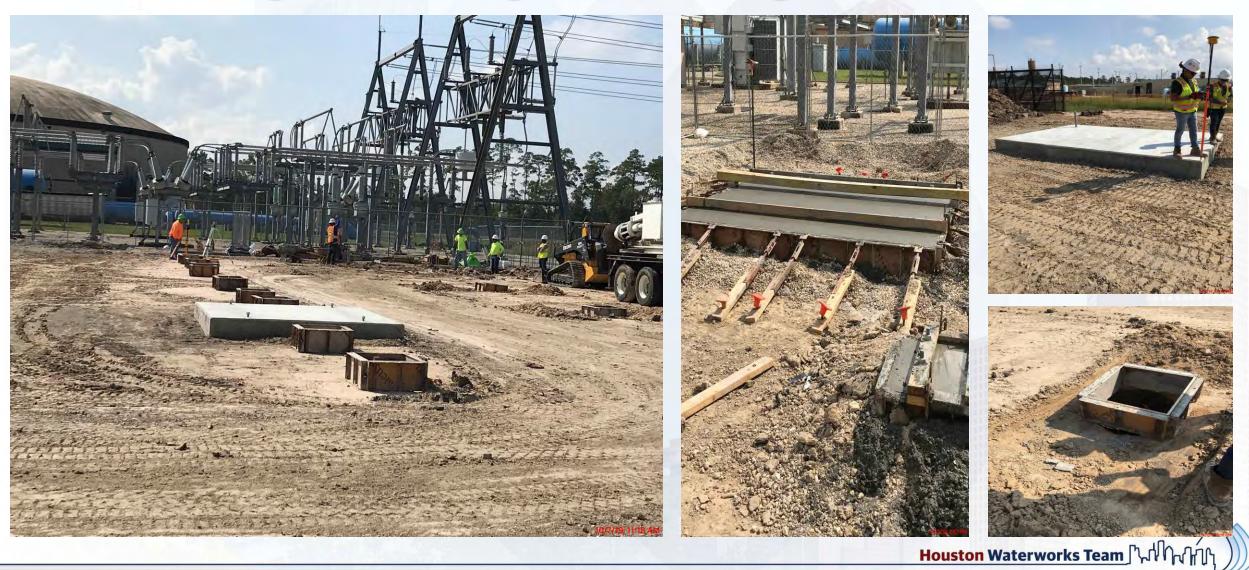


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Construction Progress – EWP6 Substation Facility 102

• Forming, reinforcing, and pouring Yard Foundations

Forming, reinforcing, and pouring Yard Foundations



Continue Yard Foundations



Construction Progress – BOP LREQ Basins Facilities 601/602

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- 80lft Shoring installation
- Mass excavation at Facility 601/602

80lft Shoring installation



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Mass excavation at Facility 601/602



Construction Progress – Yard Piping

- Demolishing: Removing, crushing, and disposing of the existing 36-in, 30in, and 24-in Finished Water (FW) Pipe, appurtenances, and manholes
- Receiving and unloading ductile iron pipe deliveries
- Installing 24in PW line

Demolishing Existing 30-in & 24-in FW Pipe & Manholes



Receiving & Unloading Ductile Iron Pipe Deliveries





Excavating and Laying 24-in PW line



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Excavating and Laying 30-in RCY line



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Construction Progress – Administration Building

Over Excavation of Building Pad

Haul off Materials

Over Excavation of Building Pad



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Haul off of Materials







Construction Progress – South Plant

- Alberici Setting up Trailers
- Performed in-house proof-roll in GST 1&2
- Pulling up 4" Sanitary Pipe that runs under GST 1&2

Alberici Setting up Trailers





Performed in-house proof-roll in GST 1&2



